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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/784,226	02/24/2004	Masanori Takeuchi	110184.01	8354	
25944	7590 12/13/2005	EXAMINER		INER	
OLIFF & BERRIDGE, PLC			NORRIS, J	NORRIS, JEREMY C	
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
			2841		
			DATE MAILED: 12/13/2009	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/784,226	TAKEUCHI, MASANORI			
Office Action Summary	Examiner	Art Unit			
	Jeremy C. Norris	2841			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS fron e, cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 22 A	<u>August 2005</u> .				
2a) This action is FINAL . 2b) ⊠ This					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)⊠ Claim(s) <u>12 and 13</u> is/are allowed. 6)⊠ Claim(s) <u>1-11 and 14-18</u> is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/o	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examina 10) The drawing(s) filed on 2-24-04 is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	ccepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is of	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Applica Drity documents have been receive But (PCT Rule 17.2(a)).	tion No ved in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	y (PTO-413) Date Patent Application (PTO-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-11 and 14-18 are rejected under 35 U.S.C. 102(b) as being anticipated by US 4,816,323 (Inoue).

Inoue discloses, referring primarily to figure 1 a flexible wiring board having: a first resin film (top layer); a first wiring film (27), a bottom face of which is embedded into the first resin film; and a second wiring film (28), a bottom face of which is in contact with a surface of the first resin film [claim 1], wherein a surface of the first wiring film is flush with a surface of the second wiring film [claim 2], wherein at least one third opening is formed in a part of the first resin film where the first wiring film is disposed [claim 6], wherein a metal bump is located in at least one of the third openings [claim 9], wherein the first resin film has a flat surface at an opposite side to where the first and second wiring film are disposed [claim 10], wherein the first wiring film and the second wiring film each extend an equal amount along a width direction, the width direction being a direction that is parallel to or substantially parallel to the surface of the first resin film [claim 14], wherein the first wiring film and the second wiring film each extend a substantially equal amount along a width direction, the width direction being a direction that is parallel to or substantially parallel to the surface of the first resin film [claim 15],

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wherein the first wiring film extends a greater amount in a thickness direction than the second wiring film, the thickness direction being a direction that is perpendicular to or substantially perpendicular to a plane along which the surface of the first resin film extends [claim 16], wherein: the first wiring film includes a second surface that is substantially opposite to the surface of the first wiring film that is flush with the surface of the second wiring film, the second wiring film includes a second surface that is substantially opposite to the surface of the second wiring film that is flush with the surface of the first wiring film, the second surface of the first wiring film extends substantially along a first plane the second surface of the second wiring film extends substantially along a second plane, and the first plane is different from the second plane [claim 17].

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Similarly, Inoue discloses, a flexible wiring board having: a first resin film (2nd layer from top); a first wiring film (27), a bottom face of which is embedded into the first resin film; and a second wiring film (shown not referenced), a bottom face of which is in contact with a surface of the first resin film [claim 1], wherein a second resin film (top layer) is formed on the surfaces of the first and second wiring films [claim 3], wherein at least one first opening is formed in the part of the second resin film where the first wiring film is disposed [claim 4], wherein at least one second opening is formed in a part of the second resin film where the second wiring film is disposed [claim 5], wherein a metal bump is located in at least one of the first openings [claim 7], wherein a metal bump is located in at least one of the second openings [claim 8].

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Additionally, Inoue discloses, the intermediate product of a flexible wiring board having a first resin film (top layer), and a metal foil (27) wherein the metal foil has a thin film part and a thick film part connecting to the thin film part, the thick film part has a larger thickness than a thickness of the thin film part and is connected to the thin film part, a surface of the metal foil is flush, a part of a bottom face of the metal foil, where the thick film part is disposed, is embedded into the first resin film, a part of the bottom face of the metal foil, where the thin film part is disposed, is in contact with a surface of the first resin film, and the first resin film has a flat surface in an opposite side to where the metal foil is disposed [claim 11], wherein the surface of the metal foil that is flush extends along the thick film part and the thin film part, and is opposite to the bottom face of the metal foil [claim 18].

Allowable Subject Matter

Claims 12 and 13 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: Claim 12 states the limitation "a first bump is arranged in the first opening, the wire of the second flexible wiring board is connected to the first wiring film by the first bump, a second bump is arranged in the second opening, the wire of the second flexible wiring board is connected to the second wiring film by the second bump". This limitation, in conjunction with the other claimed features, was neither found to be disclosed in nor suggested by the prior art.

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Response to Arguments

Applicant's arguments with respect to claims 1-11 and 14-18 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy C. Norris whose telephone number is 571-272-1932. The examiner can normally be reached on Monday - Friday, 9:30 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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